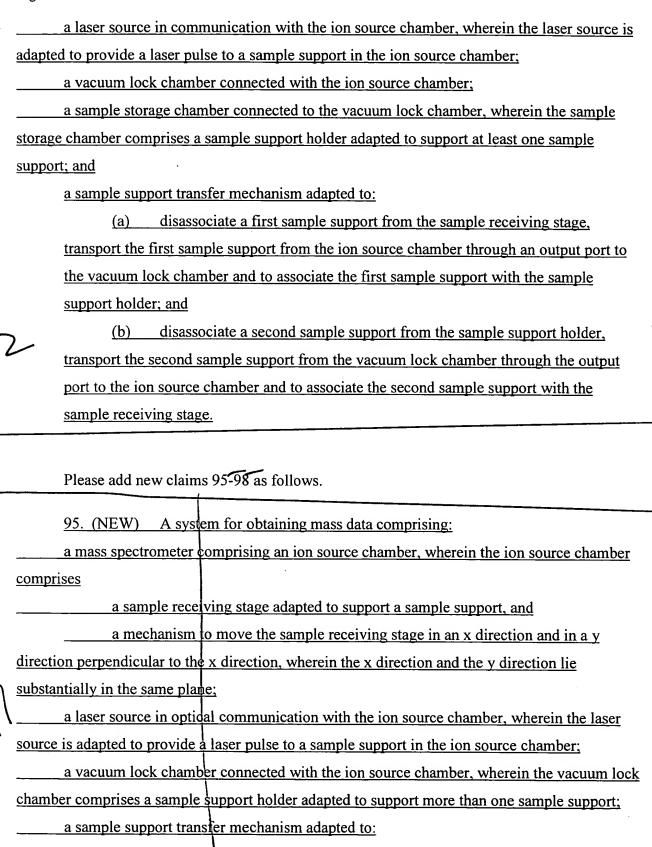
AMENDMENT

In the Claims

Please amend claims 75 and 90 to read as follows.

	75. (AMENDED) A system for obtaining mass data comprising:
-	a mass spectrometer comprising an ion source chamber, wherein the ion source chamber
9	<u>comprises</u>
-	a sample receiving stage adapted to support a sample support, and
	a mechanism to move the sample receiving stage in an x direction and in a y
9	direction perpendicular to the x direction, wherein the x direction and the y direction lie
:	substantially in the same plane;
	a laser source in optical communication with the ion source chamber, wherein the laser
:	source is adapted to provide a laser pulse to a sample support in the ion source chamber;
-	a vacuum lock chamber connected with the ion source chamber, wherein the vacuum lock
9	chamber comprises a sample support holder adapted to support more than one sample support;
•	and and
	a sample support transfer mechanism adapted to:
	(a) disassociate a first sample support from the sample receiving stage,
	transport the first sample support from the ion source chamber through an output
	port to the vacuum lock chamber and to associate the first sample support with the
	sample support holder; and
	(b) disassociate a second sample support from the sample support holder,
	transport the second sample support from the vacuum lock chamber through the
	output port to the ion source chamber and to associate the second sample support
	with the sample receiving stage.
_	90. (AMENDED) A system for obtaining mass data comprising:
	a mass spectrometer comprising an ion source chamber, wherein the ion source chamber
	comprises
2	a sample receiving stage adapted to support a sample support, and
-	a mechanism to move the sample receiving stage;
	a mediamon to move the sample receiving stage,



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> disassociate a first sample support from the sample receiving stage, transport the first sample support from the ion source chamber to the vacuum lock chamber and to associate the first sample support with the sample support holder; and

(b) disassociate a second sample support from the sample support holder. transport the second sample support from the vacuum lock chamber to the ion source chamber and to associate the second sample support with the sample receiving stage; and

a means for maintaining the vacuum lock chamber and the ion source chamber in fluid communication and under a vacuum controlled environment during disassociation, transportation and association of the first and second sample supports.

96. (NEW) A system for obtaining mass data comprising: a mass spectrometer comprising an ion source chamber, wherein the ion source chamber comprises a sample receiving stage adapted to support a sample support, and a mechanism to move the sample receiving stage in an x direction and in a v direction perpendicular to the x direction, wherein the x direction and the y direction lie substantially in the same plane; a laser source in optical communication with the ion source chamber, wherein the laser source is adapted to provide a laser pulse to a sample support in the ion source chamber; a vacuum lock chamber connected with the ion source chamber, wherein the vacuum lock chamber comprises a sample support holder adapted to support more than one sample support; <u>and</u> a sample support transfer mechanism adapted to: (a) disassociate a first sample support from the sample receiving stage, transport the first sample support from the ion source chamber through an output port to the vacuum lock chamber and to associate the first sample support with the

sample support holder; and

disassociate a second sample support from the sample support holder. transport the second sample support from the vacuum lock chamber through the



output port to the ion source chamber and to associate the second sample support with the sample receiving stage;

wherein the output port is adapted to maintain the vacuum lock chamber and the ion source chamber in fluid communication and under a vacuum controlled environment during disassociation, transportation and association of the first and second sample supports.

97. (NEW) A system for obtaining mass data comprising:
a mass spectrometer comprising an on source chamber, wherein the ion source chamber
comprises
a sample receiving stage adapted to support a sample support, and
a mechanism to move the sample receiving stage;
a laser source in communication with the ion source chamber, wherein the laser source is
adapted to provide a laser pulse to a sample support in the ion source chamber;
a vacuum lock chamber connected with the ion source chamber;
a sample storage chamber connected to the vacuum lock chamber, wherein the sample
storage chamber comprises a sample support holder adapted to support at least one sample
support;
a sample support transfer mechanism adapted to:



bie support transfer meerianism adapted to.

(a) disassociate a first sample support from the sample receiving stage,
transport the first sample support from the ion source chamber to the vacuum lock
chamber and to associate the first sample support with the sample support holder;
and

(b) disassociate a second sample support from the sample support holder, transport the second sample support from the vacuum lock chamber to the ion source chamber and to associate the second sample support with the sample receiving stage; and

a means for maintaining the vacuum lock chamber and the ion source chamber in fluid communication and under a vacuum controlled environment during disassociation, transportation and association of the first and second sample supports.

98. (NEW) A system for obtaining mass data comprising:

a mass spectrometer comprising an ion source chamber, wherein the ion source chamber
comprises
a sample receiving stage adapted to support a sample support, and
a mechanism to move the sample receiving stage;
a laser source in communication with the ion source chamber, wherein the laser source is
adapted to provide a laser pulse to a sample support in the ion source chamber;
a vacuum lock chamber connected with the ion source chamber;
a sample storage chamber connected to the vacuum lock chamber, wherein the sample
storage chamber comprises a sample support holder adapted to support at least one sample
support; and

a sample support transfer mechanism adapted to:

- (a) disassociate a first sample support from the sample receiving stage, transport the first sample support from the ion source chamber through an output port to the vacuum lock chamber and to associate the first sample support with the sample support holder; and
- (b) disassociate a second sample support from the sample support holder, transport the second sample support from the vacuum lock chamber through the output port to the ion source chamber and to associate the second sample support with the sample receiving stage:

wherein the output port is adapted to maintain the vacuum lock chamber and the ion source chamber in fluid communication and under a vacuum controlled environment during disassociation, transportation and association of the first and second sample supports.

